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REMARKS

This is a response to an Office Action mailed May 3, 2005. All objections and rejections are respectfully traversed.

Claim 48 has been added and Claims 1, 3, 12, 14, 23 and 26-30 have been amended to better claim the invention. Claims 2, 13, 24, 25 and 31 – 47 have been canceled. Claims 1, 3-12, 14- 23, 26- 30 and 48 are now pending in this application.

At paragraph 1 of the Office Action, the Claim 1 was objected to for lacking the word "circuit" after "logic." The claim as amended is believed to satisfy the objection.

At paragraph 7, Claims 1, 12 and 23 were rejected under 35 U.S.C. § 102 as being anticipated by Lesea, U.S. Patent No. 4,415,839 issued November 15, 1983. Claims 1, 12 and 23 have been amended. The claims as amended are believed to overcome the rejection. The amendments are described in the paragraph below. Applicant respectfully requests that the rejection to claims 1, 12 and 13 be removed.

At paragraph 9 of the Office Action, Claims 2-11, 13-22 and 24-30 were objected to as being dependent upon a rejected base claims. The Examiner however indicated that these claims would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claim. Claim 1 has been amended to include the limitations of Claim 2 and Claim 2 has been canceled. Claim 12 has been amended to include the limitations of claim 13 and claim 13 has been canceled. Claim 23 has been amended to include the limitations of claim 25 and claim 25 has been canceled. New claim 48 includes the limitations of claim 23 and claim 24 and claim 24 has been canceled. Claims 3-11, 14-22 and 26-30 are dependent claims each

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depending from a claim believed to be allowable and are accordingly also believed to be allowable.

All objections and rejections having been met, it is believed that the application is in condition for allowance. Favorable action is respectfully solicited.

The Commissioner for Patents is authorized to charge any fees or credit any overpayments to the account of the undersigned, Deposit Account No. 50-3117.

If the enclosed papers or fees are considered incomplete, the Patent Office is respectfully requested to contact the undersigned collect at (617) 868-8483 in Cambridge, Massachusetts.

Respectfully submitted,



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